IN THE CLAIMS:

Please cancel without prejudice claims 1 – 10 and 12 - 21. New claims 22 –

25 have been added.

The listing of claims replaces all prior versions, and listings, of claims in the

application.

LISTING OF CLAIMS:

1 to 10. (Canceled)

11. (Currently Amended) A DSL repeater for improving transmission of

POTS band and DSL band signals over a local loop, the repeater comprising:

an upstream signal amplifier for amplifying upstream DSL signals;

a downstream signal amplifier for amplifying downstream DSL signals; and

a load coil disposed in parallel with the upstream and downstream signal

amplifiers for improving the transmission of POTS band signals over the local loop,

wherein the load coil having one or more capacitors electrically connected in parallel

with an inter-winding capacitance between windings of the load coil.

comprises:

a first inductor including a first winding and a first core, the first winding

having upstream and downstream ends and a first intra-winding capacitance;

a second inductor including a second winding and a second core, the second

winding having upstream and downstream ends and having a second intra-winding

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capacitance;

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a first compensating capacitor disposed between the upstream end of the first inductor and the downstream end of the second inductor to offset at least a portion of the first and second intra-winding capacitances for improving the impedance of the load coil to DSL-band signals; and

a second compensating capacitor disposed between the upstream end of the second inductor and the downstream end of the first inductor to offset at least a portion of the first and second intra-winding capacitances for improving the impedance of the load coil to DSL-band signals.

12 to 21 (Canceled).

22 (New). The DSL repeater of claim 11 wherein

the first and second compensating capacitors have respective first and second compensating capacitances;

the first and second capacitances approximate the first and second intrawinding capacitances respectively and

the first and second compensating capacitors act to counterbalance the first and second intra-winding capacitances respectively.

23 (New). The DSL repeater of claim 22 wherein

the ratio of the first compensating capacitance to the first intra-winding capacitance is in the range of 0.75 to 1.25.

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the ratio of the first compensating capacitance to the first intra-winding capacitance is in the range of 0.99 to 1.01.

25 (New). The DSL repeater of claim 11 wherein:

the first and second compensating capacitors each have capacitances in the range 770pF to 1290pF.

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